Main Scheme - 7 x 1hrs per fortnight

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Working with circles	Recognise and label parts of circle
	Calculate fractional parts of a circle
	Calculate the length of an arc
	Calculate the area of a sector
3	Understand and use the volume of a cylinder and cone
ing	Understand and use the volume of a sphere
ork	Undertand and use the surface area of a sphere
Š	Understand and use the surface area of a cylinder and cone
	R - H - Solve area and volume problems involving similar shapes
	Understand and represent vectors
	Use and read vector notation
	Draw and understand vectors multiplied by a scalar
ors	Draw and understand addition and subtraction of vectors
Vectors	H - Explore a vector journeys in shapes
8	H - Explore quadrilaterals using vectors
	H - Understand parallel vectors
	H - Use vectors to construct geometric arguments and proofs
	H - Explore collinear points using vectors
D	R - Understand the difference between factors and multiples
Types of Number and sequences	R - Understand primes and express a number as a product of its prime factors
ber	R - Find the HCF and LCM of a set of numbers
of Numbe. sequences	Describe and continue arithmetic and geometric sequences
anb N:	Explore other sequences (inc Fibonacci)
se se	H - Describe and continue sequences involving surds
pes	R - Find the rule for the nth term of a linear sequence
₹ <u>7</u>	H - Find the rule for the nth term of quadratic sequence
Probability	R - Know how to add, subtract and multiply fractions
	R - Find probabilities using equally likely outcomes
	R - Use the property that probabilities sum to 1
	Using experimental data to estimate probabilties
	Work with organised lists
	H - Use the product rule for counting
	R - Construct and interpret sample spaces for more than one event
	Find probabilities from tables, Venn diagrams and frequency trees
	Calculate probability with independent events
	Use tree diagrams for independent events
	Use tree diagrams for dependent events
	H - Contstruct and interpret conditional probabilities (Tree diagrams)
	H - Construct and interpret conditional probabilities (Venn diagrams and two-way tables)
	Constitute and interpret conditional probabilities (venil diagrams and two-way tables)

Understanding populations and samples; Primary and secondary data Construct and interpret frequency tables and frequency polygons Construct and interpret line and bar charts (including composite bar charts) R - Construct and interpret pie charts H - Construct histograms H - Interpret histograms R - Find and interpret averages from a list R - Find and interpret averages from a table R - Construct and interpret time series graphs H - Construct and interpret cumulative frequency diagrams H - Use cumulative frequency diagrams to find measures H - Construct and interpret box plots Compare distributions using charts and measures/H - Compare distributions using complectarts and measures R - Construct and interpret scatter graphs R - Draw and use a line of best fit
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H - Construct and interpret box plots
Compare distributions using charts and measures/H - Compare distributions using comple charts and measures
R - Construct and interpret scatter graphs
R - Draw and use a line of best fit
Understand extrapolation
Criticise charts and graphs
R - Equations of lines parallel to the axis
R - Plot straight line graphs
R - Interpret $y = mx + c$
R - Find the equation of a straight line from a graph (1)
Find the equation of a straight line from a graph (2)
R - Find the equation of a straight line from a graph (1) Find the equation of a straight line from a graph (2) Equation of a straight-line graph given one point and gradient Equation of a straight-line graph given two points Determine whether a point is on a line
Equation of a straight-line graph given two points
Determine whether a point is on a line
R - Solve linear simultaneous equations graphically
H - Explore perpendicular lines
H - Find the equations of perpendicular lines
Plot and read from quadratic graphs
Identify and interpret roots and intercepts of quadratics
Plot and read from cubic graphs
Plot and read from reciprocal graphs
H - Understand and use exponential graphs
Identify and interpret roots and intercepts of quadratics Plot and read from cubic graphs Plot and read from reciprocal graphs H - Understand and use exponential graphs H - Find and use the equation of a circle centre (0, 0); simultaneous equations - linear/circle H - Understand and use trigonometrical graphs
H - Understand and use trigonometrical graphs
Recognise graph shapes
R - Construct and interpret conversion graphs
R - Construct and interpret other real-life straight line graphs
Construct and interpret piece-wise graphs
Construct and interpret piece-wise graphs Find approximate solutions to equations using graphs Interpret distance/time graphs Construct distance/time graphs H - Construct and interpret velocity/time graphs
Interpret distance/time graphs
Construct distance/time graphs
H - Construct and interpret velocity/time graphs
H - Use a tangent to a curve to estimatie rates of change
H - Estimate the area under a curve (e.g. estimating distance from velocity/time graph)

R - Solve linear equations and inequalities R - Solve linear simultaneous equations R - Expand three binomials H - Expand three binomials (Recognise and) use identities (inc. equating coefficents) R - Change the subject of a simple formula Change the subject of a known formula Change the subject of a complex formula H - Change the subject where the subject appears more than once H - Solve equations by iteration Factorise quadratic expressions H - Factorise quadratic expressions Solve equations equal to 0 Solve quadratic equations by factorisation H - Solve complex quadratic expressions by factorisation H - Solve quadratic equations by completing the square H - Solve quadratic equations sing the quadratic formula H - Sketching quadratic functions (identifying turning points by completing the square and curve sketching) H - Solve quadratic inequalities R - H - Solve linear-quadratic simulataneous equations Understand direct proportion Recognise and interpret graphs that illustrate direct and inverse proportion H - Construct complex direct proportion equations Understand inverse proportion H - Construct inverse proportion Recognise in parallel lines and shapes R - Basic angle rules R - Angles in parallel lines and shapes R - Bearings R - Exterior and interior angles of polygons Proving geometric facts	R - Solve linear equations and inequalities R - Solve linear simultaneous equations R - Expand binomials H - Expand binomials (Recognise and) use identities (inc. equating coefficents) R - Change the subject of a simple formula Change the subject of a known formula Change the subject of a complex formula H - Change the subject where the subject appears more than once H - Solve equations by iteration Factorise quadratic expressions H - Factorise complex quadratic expressions Solve equations equal to 0 Solve quadratic equations by factorisation H - Solve quadratic equations by completing the square H - Solve quadratic equations by completing the square H - Solve quadratic equations (identifying turning points by completing the square and curve sketching) H - Solve quadratic inequalities R - H - Solve linear-quadratic ismulataneous equations Understand direct proportion Recognise and interpret graphs that illustrate direct and inverse proportion H - Construct complex direct proportion equations Understand inverse proportion H - Construct inverse proportion equations R - Basic angle rules R - Bove problems involving speed, density and pressure R - Basic angle rules R - Solve problems involving speed, density and pressure R - Basic angle rules R - Solve problems involving vectors H - Circle Theorem: Angles in the same segment H - Circle Theorem: Angles in the same segment H - Circle Theorem: Angles in the same segment H - Circle Theorem: Angles in the same segment		R - Expand and factorise with a single bracket
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H - Solve coordinate geometry problems with circles	R - Pythagoras' theorem and trigonometrical ratios (inc. sine/cosine rule for Higher classes)		H - Solve coordinate geometry problems with circles
R - Pythagoras' theorem and trigonometrical ratios (inc. sine/cosine rule for Higher classes)	<u> </u>		R - Pythagoras' theorem and trigonometrical ratios (inc. sine/cosine rule for Higher classes)
	R - 3D Shape - properties, plans and elevations, surface area and volume of prisms		R - 3D Shape - properties, plans and elevations, surface area and volume of prisms

Algebraic Fractions (Higher Only)	H - Add and subtract simple algebraic fractions
	H - Add and subtract complex algebraic fractions
	H - Multiply and divide simple algebraic fractions
	H - Multiply and divide complex algebraic fractions
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	H - Solve equations with algebraic fractions
~ J	H - Use function notation
s s gh ()	H - Work with composite functions
ction: of (Hig Only)	H - Work with inverse functions
Functions & Proof (Highe Only)	H - Represent numbers algebraically
Fu Pro	H - Algebraic proof
	R - Perform and describe line symmetry and reflection
ing	R - Perform and describe rotation/rotational symmetry
Transforming and constructing	R - Perform and describe translations of shapes
	R - Perform and describe enlargements of shapes
	R - H - Perform and describe negative enlargements of shapes
	R - Identify transformations of shapes
	Perform and describe a series of transformations of shapes
ing	H - Identify invariant points and lines
n.c	R - Perform standard constructions using ruler and protractor or ruler and compasses
Transfc	R - Solve loci problems
	H - Sketch and identify translations of the graph of a given function
	H - Sketch and identify reflections of the graph of a given function